

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/01539

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D53/86

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 521 387 A (BROECKER FRANZ J ET AL) 4 June 1985 (1985-06-04) cited in the application column 3, line 31 - line 35; claim 1; example 3	1-3
A	DD 266 744 A (LEUNA WERKE VEB) 12 April 1989 (1989-04-12) claim 1	1
A	EP 0 243 052 A (ICI PLC) 28 October 1987 (1987-10-28) cited in the application page 1, line 1 - page 3, line 3	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

26 May 2003

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4521387	A	04-06-1985	DE 3243206 A1	24-05-1984
			DE 3362623 D1	24-04-1986
			EP 0109635 A1	30-05-1984
DD 266744	A	12-04-1989	DD 266744 A1	12-04-1989
EP 0243052	A	28-10-1987	AT 71554 T	15-02-1992
			CA 1296701 A1	03-03-1992
			DE 3775972 D1	27-02-1992
			EP 0243052 A2	28-10-1987
			ES 2028071 T3	01-07-1992
			FI 871809 A ,B,	26-10-1987
			GR 3003579 T3	16-03-1993
			JP 2659953 B2	30-09-1997
			JP 62282637 A	08-12-1987
			NO 871708 A ,B,	26-10-1987
			PT 84764 A ,B	01-05-1987
			US 4871710 A	03-10-1989
			US 4996181 A	26-02-1991
			US 4983367 A	08-01-1991